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"kernel space" data management policy system

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[PDF] Linux security module framework

C Wright, C Cowan, J Morris, S Smalley, G Kroah ... - Ottawa Linux ..., 2002 - Citeseer

... Ottawa Linux Symposium 2002 606 User Level process open **system call Kernel space** inode Access Look up ... The sk_buff structure provides storage for packet **data** and related state information, and is ... A set of sk_buff hooks is provided for lifecycle **management** of the security ...

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[PDF] Distributed Systems

M Van Steen - IEEE concurrency, 1999 - Citeseer

... sys- tem provides only mechanisms: Allow (dynamic) setting of caching **policies**, prefer- ably ... Replication: Make copies of **data** available at differ- ent machines: Replicated file servers ... to maintain global memory map in software Inherent distributed resource **management**: no cen ...

Cited by 336 - Related articles - View as HTML - BL Direct - All 83 versions

AMnet 2.0: An improved architecture for programmable networks

T Fuhrmann, T Harbaum, M Scholler, M ... - Lecture Notes in ..., 2002 - Springer

... of critical malfunctions is much smaller when using **user-space** code than with **kernel-space** code ... For inspection of the TCP content, we can, eg, redirect the **data** stream to a local ... connections can eg be stored in the EE using the appropriate helper functions for list **management**. ...

Cited by 24 - Related articles - BL Direct - All 22 versions

Security issues surrounding programming languages for mobile code: Java vs. ...

S Gritzalis, G Aggelis - ACM SIGOPS Operating Systems Review, 1998 - portal.acm.org

... programming languages were designed for building components where the complexity is in the **data** structures and ... Like the trusted interpreter, **kernel space** in operating systems has complete access to all of the **system's ... management**, certificate **management** and access control ...

Cited by 9 - Related articles - BL Direct - All 3 versions

[PDF] Fidran: A flexible intrusion detection and response framework for active ...

A Hess, M Jung, G Schäfer - Proc. of 8th IEEE Symposium on Computers ..., 2003 - Citeseer

... never become the target of an attack, due to irregular on-line times, chang- ing IP-addresses or having the perception that their **system** or **data**, respectively, is ... FIDRAN **User-Space** Module 1 FIDRAN **Management** Module Insert Op Module (after **policy** checking) ... **Kernel Space** ...

Cited by 15 - Related articles - View as HTML - All 13 versions

[PDF] An active router architecture for multicast video distribution

R Keller, S Choi, M Dasen, D Decasper, G Fankhauser, ... - IEEE INFOCOM, 2000 - Citeseer

... Source Port Destination Port UDP checksum UDP length UDP WaveVideo **Data** Page 3. ... It forwards requests from the kernel to other plu- gin **management** modules and vice versa. • **Policy** Controller (PoC): the PoC deals with **policy** rules set by the router's administrator. ...

Cited by 119 - Related articles - View as HTML - BL Direct - All 18 versions

Router plugins: a software architecture for next-generation routers

D Decasper, Z Dittia, G Parulkar, B ... - IEEE/ACM Transactions ..., 2000 - portal.acm.org

... High performance is guar- anteed only in part through a fully **kernel space** im- plementation, which ...

that are envisioned include a plugin for statistics gathering (useful for network monitoring/**management**), a plugin ... 3 The mbuf is a **data** structure that is used to store packets and ...
[Cited by 291](#) - [Related articles](#) - [BL Direct](#) - [All 32 versions](#)

Arrow: A flexible architecture for an accounting and charging infrastructure in the ...
G Fankhauser, B Stiller, B Plattner - Netnomics, 1999 - Springer
... in conjunction with communication protocols responsible for **data** transport and resource **management** protocols ... Although access to packet **data** in **user-space** is much slower and not ... and accounting architecture based on Crossbow is divided along the user-**kernel-space** line as ...
[Cited by 36](#) - [Related articles](#) - [All 12 versions](#)

[PDF] Service Level Instrumentation 101-An In-Depth Look at How to Instrument ...
SE Smead - CMG-CONFERENCE-, 1998 - cmg.org
... TCP/IP NETWORK DRIVER INTERFACE NETWORK **DATA** LINK/PHYSICAL CORE KERNEL SERVICES **Kernel Space User Space** ... Figure 1. Service Level Instrumentation in the Application Stack Performance **management** Agent Function/**System Call** Interface ...
[Cited by 2](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#)

Secure communications in ATM networks
... , C Delahaye, H Leitold, R Posch, ... - IEEE 15th ..., 1999 - doi.ieeecomputersociety.org
... The SP (Security **Policy**) module allows users (or the security officer) to inform the IE/OAM module of the security **policy** (cf. ... The KM (Key **Management**) module implements ... Contrary to the IE/OAM module, it has access to the **data** traffic so it is required to inform the IE/OAM of the ...
[Cited by 2](#) - [Related articles](#) - [All 9 versions](#)

[PDF] Practical programmable packets
JT Moore, M Hicks, S Nettles - IEEE INFOCOM, 2001 - Citeseer
... to compute a maximum size for a packet buffer, thus avoiding high memory **management** costs during ... sending a packet takes $\mathcal{O}(\mu)$ time, as does deliver- ing **data** with demux. ... As we gain more experience with SNAP, we expect to develop more insight into reasonable **policies**. ...
[Cited by 105](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 19 versions](#)

A practical learning-based approach for dynamic storage bandwidth allocation
V Sundaram, P Shenoy - Lecture notes in computer science, 2003 - Springer
... These arguments motivate the need to automate simple storage **management** tasks so as to make the ... Since **data** accessed by applications may be stored on overlapping set of storage devices, the ... Further, the **system** state by itself does not reveal if a particular class has met its ...
[Cited by 13](#) - [Related articles](#) - [BL Direct](#) - [All 13 versions](#)

Implementation of IPv6 in 4.4 BSD
DL McDonald, RJ Atkinson, BG Phan, CW Metz, KC ... - 1996 - Storming Media
... **Kernel space** ... into the Key Engine to obtain Security Association **data** for the outgoing packet. ... If no appropriate Security Associ- ation exists and a key **management** daemon is run- ning, then the Key Engine sends a Request message to that daemon and informs the output **policy** ...
[Related articles](#)

[PDF] ... Server and Secure Session Server into the LINUX Operating System
MV Glover - 2001 - dtic.mil
... multitasking, and more advanced memory **management**. 5. Advantages of Linux vs. ... single processor and lack the ability to protect their **data** structures from concurrent access ... supporting only a single type of file **system**, process scheduling **policy**, and executable format. ...
[View as HTML](#) - [All 9 versions](#)

[PS] A client/server based multiparty teleconferencing **system** and its lip ...
M Tan - 1996 - historical.ncstrl.org

... network, so the destination machines can consume most of **data** generated by the source in time with acceptable jitter and intra-stream skew. Based on this **policy**, light-weighted ... **management** is left to the operating **system** and the threads are scheduled transparently by ...

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Creation of reconfigurable hardware objects in PVM environments

GM Megson, RS Fish, DNJ Clarke - Lecture notes in computer science, 1998 - Springer

... U] **Kernel Space** i s ... the time for generating (or choosing) an Hardware Object and downloading must be small compared with the actual run-time of the object on a **data** set ... Algorithmic Skeletons: Structured **Management** of Parallel Computation, MIT Press, Cambridge, MA., 1989 ...

[Related articles](#) - [BL Direct](#) - [All 10 versions](#)

[PDF] Combining multiple intrusion detection and response technologies in an ...

A Hess, M Jung, G Schaefer - Proc. of 17th DFN-Arbeitstagung über ..., 2003 - Citeseer

... Finally, the task of the storage mechanism is to log a specified amount of packets and additional information in order to make this **data** available to the network ... It registers / unregisters the op-modules which are loaded / unloaded into **kernel space** by the **management** module ...

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [All 9 versions](#)

Supporting distributed multimedia applications on ATM networks

D Saha - In Ph. D. Dissertation, 1995 - eprints.kfupm.edu.sa

... because protection boundaries are crossed in copying **data** from the user to the **kernel space** and vice ... and the operating system no longer need to control I/O transfers, I/O **data** path can bypass the ... Due their non-work-conserving service **policy**, both SG and HRR fail to exploit the ...

[Cited by 10](#) - [Related articles](#) - [View as HTML](#) - [All 4 versions](#)

"Topologies"—distributed objects on multicomputers

K Schwan, W Bo - ACM Transactions on Computer Systems (TOCS), 1990 - portal.acm.org

... tems]: Communications **Management**; D.4.8 [Operating Systems]: Performance ... The views presented here are those of the authors and are not the **policies** or views of the US ... Textually, the abstractions in Figure 1 may be described as the following **data** types and their respective ...

[Cited by 25](#) - [Related articles](#) - [All 4 versions](#)

Monitoring edge-to-edge traffic aggregates in differentiated services networks

JY Kim, JWK Hong, TS Choi - ... of Network and Systems **Management**, 2001 - Springer

... A mon- itoring database is needed for storing and retrieving the combined and analyzed **data** from MIB II and ... Our work has focused on this lack of **management** functionality. ... There are two process spaces in the Linux operating **system**: the **user space** and the **kernel space**. ...

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Deciding when to forget in the Elephant file system

DS Santry, MJ Feeley, NC Hutchinson, AC ... - Proceedings of the ..., 1999 - portal.acm.org

... A user can specify any version as a landmark. In addition, the system uses a heuristic to conservatively **tag** other versions as possible landmarks. The cleaner frees only versions that the Keep- Landmarks **policy** determines are unlikely to be landmarks. ...

[Cited by 286](#) - [Related articles](#) - [BL Direct](#) - [All 71 versions](#)

[PDF] Policy-Enhanced Linux

PC Clark - 23rd National Information Systems Security ..., 2000 - Citeseer

... When a subject is a multilevel subject, the subject needs to communicate with the kernel to inform it of the **Policy Label** to assign to each new object. This can only be accomplished by modifying the creat() **system call** to accept the additional **Policy Label** parameter. This ...

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Elephant: The file system that never forgets

DJ Santry, MJ Feeley, NC ... - Workshop on Hot ..., 1999 - doi.ieeecomputersociety.org

... When a timestamp **tag** is not specified, the selected version is determined by either the ... We envision that this **system call** will be used by a new suite of utility programs that allow ... Elephant cleaner is responsible for reclaiming storage and is directed by the **policies** outlined in ...

[Cited by 55](#) - [Related articles](#) - [All 34 versions](#)

[PDF] Linux security module framework

C Wright, C Cowan, J Morris, S Smalley, G Kroah ... - Ottawa Linux ..., 2002 - Citeseer

... many instances of the same hook throughout the kernel, to ensure that the module is consulted at every place where a **system call** could "error out ... LSM adds a security field to the task_struct to allow security **policies** to **label** a task with a **policy** specific security **label**. ...

[Cited by 43](#) - [Related articles](#) - [View as HTML](#) - [All 39 versions](#)

Dynamic label binding at run-time

Y Beres, CI Dalton - Proceedings of the 2003 workshop on New ..., 2003 - portal.acm.org

... At this point the kernel can be instrumented to check whether any particular **policy**, such as access control, applies on the passed **label** values. In cases when the **policy** prohibits writes to the intended destination the original **system call** is skipped over and an error call is ...

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Exokernel: An operating system architecture for application-level resource ...

DR Engler, MF Kaashoek, J O'Toole Jr - Proceedings of the fifteenth ..., 1995 - portal.acm.org

... spaces. Each exported operation can be encapsulated within a **system call** that checks the ownership of any resources involved. ... relinquish. **Policy** An exokernel hands over resource **policy** decisions to library operating systems. ...

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[PDF] Multilevel security in the UNIX tradition

MD McIlroy, JA Reeds - Software - Practice and Experience, 1992 - Citeseer

... in privileged code Privileged processes in effect administer their own security **policy**, and thus ...

the privilege "nocheck," which allows a process to circumvent automatic **label** checking on ... used to detect changes in labels of open files; and a special **system call** (unsafe) identifies ...

[Cited by 64](#) - [Related articles](#) - [View as HTML](#) - [All 13 versions](#)

Practical domain and type enforcement for UNIX

L Badger, DF Sterne, DL Sherman, ... - ... on Security and ..., 1995 - doi.ieeecomputersociety.org
... in A automatically creates a subject in B when it does a normal `ezec()` **system call** of an ... as Multics [S, Trusted XENIX ' TMach [lo], etc.) store one L [9, AC **label** or DAC ... Instead, our approach maintains type associations in a UNIX kernel-resident runtime **policy** database that is ...

[Cited by 161](#) - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)

Compartmented mode workstation: Prototype highlights

JL Berger, J Picciotto, JPL ... - IEEE Transactions ..., 1990 - doi.ieeecomputersociety.org
... The **system call** that creates new processes has been modified to set the sensitivity level of the child process equal to the sensitivity ... involved." This notion of having the **label** on an object "float up" as data is added to it is similar to the high-water mark **policy** implemented by ...

[Cited by 36](#) - [Related articles](#) - [All 6 versions](#)

Countering code-injection attacks with instruction-set randomization

GS Kc, AD Keromytis, V Prevelakis - ... of the 10th ACM conference on ..., 2003 - portal.acm.org
... I \$1 exit987654 0 In all cases, we must hide low-level (eg, parsing) errors from the remote user, as these could reveal the **tag** and thus ... that cause bad data to propagate in the system, eg, not checking for certain Unix shell characters on input that is passed to the **system()** **call**. ...

[Cited by 237](#) - [Related articles](#) - [All 26 versions](#)

[PDF] Design and implementation of the TrustedBSD MAC framework

R Watson, B Feldman, A Migus, C Vance - Proc. Third DARPA ..., 2003 - Citeseer
... As with other data fields in the credential, the **label** field is protected by an "immutable once shared" **policy**—the credential **label** may be ... credential data in a threaded environment, and ensures that credential used by a thread is consistent for the duration of a **system call**. 7.9. ...

[Cited by 13](#) - [Related articles](#) - [View as HTML](#) - [All 21 versions](#)

[PDF] Rule-Set Modeling of Trusted Computer System

L LaPadula - ABRAMS M, JAJODIA S, PODELL H. Information ..., 1995 - madchat.fr
... On the other hand, a single rule of operation that models a **system call** might use several requests. ... Then, if the search is valid, it again would appeal to the Access Rules for a **policy** decision on creating the file. The set of requests we have defined here is not minimal. ...

[Cited by 17](#) - [Related articles](#) - [View as HTML](#) - [All 7 versions](#)

The SimpleScalar tool set, version 2.0

D Burger, TM Austin - ACM SIGARCH Computer Architecture News, 1997 - portal.acm.org
... configures the data TLB. configures the instruction "[LB. flush all caches on a **system call**;
(<boolean> = 01 1 | tree | TRUE | false | FALSE). ... <assoc> associativity of the cache (power of two). <repl> replacement **policy** (1 1 f | r), where l = LRU, f = FIFO, r = random replacement. ...

[Cited by 1810](#) - [Related articles](#) - [BL Direct](#) - [All 139 versions](#)

[PDF] Low-overhead software dynamic translation

K Scott, J Davidson, K Skadron - University of Virginia, Charlottesville, VA, 2001 - Citeseer
... indirect branch target in the appropriate IBTC. If the branch target matches the **tag** in the IBTC ... gram may be terminated or other appropriate action taken. As was the case with buffer overflow safety checker, if the overhead of the **system call policy** ...

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[PDF] Toward a universal integrity model

LJ LaPadula, JG Williams - IEEE Computer Security Foundations ..., 1991 - ccsi.carleton.ca

... Open-file functional Design description; for example, UNIX open **system call** fl] • Functional ... and discretionary access control **policies** typically defined in a security **policy** model, the ... Model also addresses information labels with markings, an internal floating **label** mechanism, and ...

[Cited by 6](#) - [Related articles](#) - [All 3 versions](#)

[\[PDF\] Modular specification of interaction **policies** in distributed computing](#)

DC Sturman - University of Illinois at Urbana-Champaign, Champaign ..., 1996 - Citeseer

... This thesis demonstrates that meta-level specication of interaction **policies** enables modular description of component interaction **policies**, as well as customization of **policy** implementations. ... The factors that determine a **policy's** implementation may vary between components. ...

[Cited by 42](#) - [Related articles](#) - [View as HTML](#) - [All 9 versions](#)

[A flexible and dynamic access control **policy** framework for an active networking ...](#)

A Hess, G Schaefer - Proc. of Kommunikation in Verteilten ..., 2003 - books.google.com

... RAD of the service and the DRAD belonging to the corresponding trust **label** must be ... After intercepting a socket **system call** the security kernel module made a lookup in the local ... security **policies** inside the corresponding database and the position of the security **policy** inside the ...

[Cited by 6](#) - [Related articles](#) - [All 15 versions](#)

[Implementing a cache for a high-performance GaAs microprocessor](#)

OA Olukotun, TN Mudge, RB Brown - Proceedings of the 18th ..., 1991 - portal.acm.org

... We present a variant of a write-through **policy** called write-only which performs almost as well as subblock placement without the use of extra valid bits. ... Hence, cache **tag** lookup does not require any bit translation and occurs in parallel with the virtual page number translation. ...

[Cited by 13](#) - [Related articles](#) - [All 3 versions](#)

[Extended labeling **policies** for enhanced application support](#)

J Picciotto, RD Graubart - Computers & Security, 1994 - Elsevier

... 7 User Process 4. **System call** return 1. **System call** USER PROCESS SPACE 3. FGL response 2 ... For example, an application that downgrades a file by lowering the file's **label** will not ... That these applications fail is not surprising; if a system's security **policy** changes, applications ...

[Cited by 8](#) - [Related articles](#) - [All 3 versions](#)

[\[PDF\] Execution **Policies** Research and Implementation](#)

PC Clark, TE Levin, CE Irvine... - 2003 - edocs.nps.edu

... chmod mv sync shutdown csh rm chown reboot cp rmdir **label** vi ls ps more Page 11. ... Support of this feature would require at least one new **system call**, as well as changes to the process scheduling logic. Relation of Execution **Policy** to Traditional MAC **Policy** ...

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